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# B Cryo

## BRITISH CRYOGENICS

### Welcome to B Cryo !

March 2011

### Dear Reader,

If you have any need to know who's who and what's going on in cryogenics, we hope this new monthly message will prove invaluable reading for you from now on. It comes from the formidable British cryogenics community, with support from the British Cryogenics Council.

B Cryo has evolved out of the ' Cluster Initiative' - in 2009, the British Government launched a competition for the National Cluster Mark, and the Cryogenic Cluster was the regional winner in South East England. It's **the** place to be in cryogenics.

The extraordinary concentration of cryogenic expertise in this corner of the UK forms an interconnected network of major manufacturing companies, universities, research labs, gas companies, independent experts and specialist suppliers - it just *hums* with cryogenic activity every day, delivering superconducting magnets for laboratories and half the world's MRI scanners amongst many other things. It's constantly breaking new frontiers in cryogenics, in science, energy, healthcare and every other industry touched by low temperatures.

British Cryogenics may be concentrated in South East England, but it's not confined there. Cluster Members are located throughout the UK, in close contact with the rest of the network - and active everywhere on earth (those in the space business would say beyond it too !)

This is the first issue of B Cryo. With your help, we aim to make it better at every opportunity, putting you in touch, wherever you are on the planet, with what you need to know in cryogenics. Please pass on this issue. If you have any questions or suggestions, or want to be added to the mailing list, we'd be delighted to hear from you at [cluster@bcryo.org.uk](mailto:cluster@bcryo.org.uk).

Best Wishes from all of us at B Cryo !

### B Cryo News



#### ' Fusion is in Fact 40% Cryogenics'

An unforgettable quote from Professor Hans Quack, in connection with the ITER project.

More details at <http://www.iter.org/newsline/162/581>.



## Growth in [Liquefied] Gas

BP's highly regarded Statistical Review published in January, provides an outlook on energy to 2030. From a cryogenic perspective, on page 56 of this 80 page report, LNG trade is shown growing twice as fast as global gas production, Australia overtakes Qatar as the world's largest LNG exporter around 2020. Europe drives much of demand.

Read [more details](#) here.



## First, Liquefy to Store, then Boil to Bring [Energy] Back!

Plant Engineer recently ran a neat story on Cluster Member Highview Power Storage, which you can find at : <http://www.plantengineer.org.uk/article/31449/New-power-storage-method-uses-ABB-motor-.aspx>

Or you can find Highview at [www.highview-power.com/wordpress](http://www.highview-power.com/wordpress)



## Oxford and Harvard Collaborate

Not Oxford University, Oxford Instruments ! They are collaborating with Harvard University on development of dilution refrigerators. 70 of the existing Triton 10mK systems have been produced by Oxford Instruments since launch in 2007, with quantum information research a key application.

More detail via <http://www.oxford-instruments.com/news/Pages/news.aspx>



## Cryogenic Hiring in Sweden

The European Spallation Source at Lund in Sweden were looking for a cryo engineer and a vacuum engineer at <http://ess-scandinavia.eu/open-positions>

## Events

A comprehensive guide to events with a cryogenic connection can be found on the British Cryogenic Council [BCC] website at <http://www.bcryo.org.uk/>, but here is an alert to a selection of some prominent occasions. This year's cryogenic calendar is crammed with celebrations of the centenary of Kammerling Onnes' discovery of the superconducting phenomenon in 1911.

### March 28, Cryogenic Innovation Club, London

This event at University College London [UCL] brings together the UK Research Infrastructure & Space Science sectors to explore crossover opportunities and stimulate exchange of knowledge for development in design & manufacture of cryogenic instrumentation. Registration via <http://www.stfc.ac.uk/Business+and+Innovation/20695.aspx> up to March 11.

## April 8, Centennial Symposium, Daresbury Laboratory, England

This is one of the superconductivity celebrations, organised by Cluster Member STFC. More at <http://www.cockcroft.ac.uk/events/CSSA/>. There may still be opportunities for sponsorship - anyone interested should contact Shrikant Pattalwar at [shrikant.pattalwar@stfc.ac.uk](mailto:shrikant.pattalwar@stfc.ac.uk)

### Cluster Activity

- Cluster Marketing meetings are on the Harwell Campus at 2pm on May 28, Aug 17 & Nov 16
- Cluster Technical meetings are on the Culham Campus at 9.30 on May 29, Aug 18 & Nov 17
- The Cluster Summit will take place on the Oxford Science Park at 4 pm on July 13
- Cluster Day [seminar, trade show & lab visit] will take place at Rutherford Appleton on Sep 28

## Members Directory

Future issues of B Cryo will profile individual Cluster Members - who have lots of news. At ICEoxford, after a new logo and a new plant, what next? A new website is the answer [at <http://www.iceoxford.com/>] And at Cryogenic Ltd, far from feeling recession, they must be busy, as they've recently been hiring record numbers of new employees.

[Air Products](#)

[AS Scientific Products Ltd](#)

[British Cryogenics Council](#)

[Canberra](#)

[Claridge Scientific](#)

[Cryoconnect](#)

[Cryogenic Ltd](#)

[Cryox Ltd](#)

[Culham Centre for Fusion Energy](#)

[CVT Ltd](#)

[Diamond Light Source](#)

[FMB Oxford](#)

[Highview Power Source](#)

[ICEoxford](#)

[Institute of Cryogenics \[Southampton University\]](#)

[LTi Metaltech](#)

[MRC-Harwell](#)

[Magnex Scientific](#)

[Magnet & Applied Superconductivity Group \(University of Oxford\)](#)

[Monroe Brothers Ltd](#)

[Oxford Brookes University](#)

[Oxford Cryosystems](#)

[Oxford Instruments](#)

[Peco Europe](#)

[STFC Cryogenics](#)

[Scientific Magnetics](#)

[Siemens Magnet Technology](#)

[Sumitomo Cryogenics](#)

[Temati](#)

[Tesla Engineering](#)

[Thames Cryogenics](#)

[Wessington Cryogenics](#)

Organisations wishing to join **The Cluster** should get in touch via [cluster@bcryo.org.uk](mailto:cluster@bcryo.org.uk).

Cluster Members are also members of the **British Cryogenics Council** ([http://www.bcry.org.uk/](http://www.bcry.org.uk)) who are kindly supporting B Cryo.

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